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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,634	01/27/2004	Robert W. Helt	TIR 2748, 2837	2260
MICHAEL E. N	7590 12/24/200 MARTIN	EXAMINER		
THE TRANE C	COMPANY	JIANG, CHEN WEN		
PATENT DEPT. 12-1 3600 PAMMEL CREEK ROAD LA CROSSE, WI 54601			ART UNIT	PAPER NUMBER
			3744	
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			12/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/765,634	HELT ET AL.
Office Action Summary	Examiner	Art Unit
	Chen-Wen Jiang	3744
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be ti I will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 21 of 2a) ☐ This action is FINAL . 2b) ☐ This action is FINAL . 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1,2,4-11,13 and 15-28 is/are pending 4a) Of the above claim(s) 23-25 is/are withdra 5) Claim(s) 16-19 and 26-28 is/are allowed. 6) Claim(s) 1,2,4-11,13,15 and 20-22 is/are rejection claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requirement.	
 9) ☐ The specification is objected to by the Examin 10) ☐ The drawing(s) filed on 17 January 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examination. 	e: a)⊠ accepted or b)⊡ objecteded or b)⊡ objecteded drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list.	nts have been received. nts have been received in Applicatority documents have been receiveu (PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	oate

Application/Control Number: 10/765,634 Page 2

Art Unit: 3744

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I (claims 1-22 and 26-28) in the reply confirmed on 12/14/2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Response to Arguments

2. The amendments and remarks (7/21/2008) presented by the applicant have been duly noted. However, an update search and further review of the prior art of record has prompted the presentation of new rejections presented below. In view of such, the previous rejections in the office action have been withdrawn.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2, 6 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Morgan (U.S. Patent Number 6,394,359).

Any one of the temperature setting switches are considered as "Control Here" switch because it actuates operable to effect control of the air conditioning unit to control the temperature in accordance with the temperature setpoint at the thermostat at which the temperature setting has been most recently inputted (actuated). In regard to claims 1, 2, 10,

Application/Control Number: 10/765,634 Page 3

Art Unit: 3744

Morgan discloses a remote control thermostat to control a thermostat. The system comprises a base thermostat 10 with ambient temperature readout 70, transceiver 55 and setpoint readout 80, a remote thermostat 15 with remote readout display 135 and transceiver 145, base thermostat controller 35 and remote thermostat controller 100. The various settings of the base unit 10 (as shown in FIG. 3) are transmitted to the remote control unit 15 with the aid of a remote unit transceiver module 145 and a remote unit antenna 150. Likewise, the various control metrics as issued by the remote control unit 15 are transmitted to the base unit 10 (as shown in FIG. 3) as well by the remote unit transceiver module 145 and remote unit antenna 150 (col.6, lines 31-37). The remote readout 135 displays either base thermostat temperature, remote thermostat temperature or setpoint temperature. Base unit 10 is designed so that it can receive an instructional RF signal from any remote control unit 15 utilizing the same carrier frequency. In this fashion, many remote control units 15 can be purchased to operate a single base unit 10. One can purchase many remote control units 15 and put them in any room in the structure for remote operation of base unit 10. The remote controls will receive setpoint from base thermostat's setting and the base thermostat's setting is controlled either by base thermostat or remote thermostats. Therefore, a changing of temperature setpoint at any one of the thermostats will change the temperature setpoint of all of the thermostats.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3744

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Morgan (U.S. Patent Number 6,394,359) in view of Dushane et al. (U.S. Patent Number 5,348,078).

Morgan discloses the invention substantially as claimed. However, Morgan does not disclose Daylight Savings Time switch actuator. Dushane discloses multiple thermostats with at least one including a time display, a Daylight Savings Time icon, and a Daylight Savings Time switch actuator capable of adjusting the time during Daylight Savings time periods (Figure 12a and column 11 lines 33-35). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Morgan with a Daylight Savings Time switch actuator in view of Dushane so as to make convenience for user to adjust time according the daylight savings changes.

7. Claims 4, 5, 8, 9, 11, 13, 15, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morgan (U.S. Patent Number 6,394,359) in view of Osann (US 2003/0050737).

Any one of the temperature setting switches are considered as "Control Here" switch because it actuates operable to effect control of the air conditioning unit to control the temperature in accordance with the temperature setpoint at the thermostat at which the

Art Unit: 3744

temperature setting has been most recently inputted (actuated). Morgan discloses a remote control thermostat to control a thermostat. The system comprises a base thermostat 10 with ambient temperature readout 70, transceiver 55 and setpoint readout 80, a remote thermostat 15 with remote readout display 135 and transceiver 145, base thermostat controller 35 and remote thermostat controller 100. The various settings of the base unit 10 (as shown in FIG. 3) are transmitted to the remote control unit 15 with the aid of a remote unit transceiver module 145 and a remote unit antenna 150. Likewise, the various control metrics as issued by the remote control unit 15 are transmitted to the base unit 10 (as shown in FIG. 3) as well by the remote unit transceiver module 145 and remote unit antenna 150 (col.6, lines 31-37). The remote readout 135 displays either base thermostat temperature, remote thermostat temperature or setpoint temperature. Base unit 10 is designed so that it can receive an instructional RF signal from any remote control unit 15 utilizing the same carrier frequency. In this fashion, many remote control units 15 can be purchased to operate a single base unit 10. One can purchase many remote control units 15 and put them in any room in the structure for remote operation of base unit 10. The remote controls will receive setpoint from base thermostat's setting and the base thermostat's setting is controlled either by base thermostat or remote thermostats. Therefore, a changing of temperature setpoint at any one of the thermostats will change the temperature setpoint of all of the thermostats. Morgan discloses the invention substantially as claimed. However, Morgan does not disclose using average temperature and clock in the system. Osann discloses the thermostat can compute an average temperature over all of the offices and control the heating/cooling system to reach an overall compromise of temperatures [135] and can have clock (Fig. 12a). Therefore, it would have been obvious to one having ordinary skill in the art at

Application/Control Number: 10/765,634

Art Unit: 3744

the time the invention was made to modify the apparatus of Morgan with an average temperature selection and clock in view of Osann so as to avoid extreme temperature readings and view clock time.

Page 6

8. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Longtin (U.S. Patent Number 5,566,879).

Any one of the temperature setting switches are considered as "Control Here" switch because it actuates operable to effect control of the air conditioning unit to control the temperature in accordance with the temperature setpoint at the thermostat at which the temperature setting has been most recently inputted (actuated). Longtin discloses a system for controlling plurality temperature regulating devices. The temperature regulating device comprises at least one primary thermostat and a predetermined number of a secondary thermostat. The primary and secondary thermostat are adapted to communicate with each other by means of commands sent through their own microprocessor means, and wherein the central control means send or receive commands to and from the temperature regulating device by means of high frequency signals applied to the power lines (col.3, lines 8-19). It is possible to install more then one primary thermostat per house. The only difference with the secondary thermostats is that the primary thermostat can SET at a single point in the house the temperature of every room (col.11, lines 43-50). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to install primary thermostat in every room in order to be able to SET the temperature of every room in the house.

9. Claims 4, 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Longtin (U.S. Patent Number 5,566,879) in view of Osann (US 2003/0050737).

Application/Control Number: 10/765,634

Art Unit: 3744

Longtin discloses a system for controlling plurality temperature regulating devices. The temperature regulating device comprises at least one primary thermostat and a predetermined number of a secondary thermostat. The primary and secondary thermostat are adapted to communicate with each other by means of commands sent through their own microprocessor means, and wherein the central control means send or receive commands to and from the temperature regulating device by means of high frequency signals applied to the power lines (col.3, lines 8-19). It is possible to install more then one primary thermostat per house. The only difference with the secondary thermostats is that the primary thermostat can SET at a single point in the house the temperature of every room (col.11, lines 43-50). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to install primary thermostat in every room in order to be able to SET the temperature of every room in the house. However, Longtin does not disclose using average temperature in the system. Osann discloses the thermostat can compute an average temperature over all of the offices and control the heating/cooling system to reach an overall compromise of temperatures [135]. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Longtin with an average temperature selection in view of Osann so as to avoid extreme temperature readings.

Page 7

Allowable Subject Matter

- 10. Claims 16-19 and 26-28 are allowed.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

Application/Control Number: 10/765,634 Page 8

Art Unit: 3744

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chen-Wen Jiang/ Primary Examiner, Art Unit 3744